

*AMENDMENTS TO THE CLAIMS*

1. (Currently Amended) An air cleaning device, comprising:
- a body ~~(1)~~;
  - a ~~first~~ filter unit ~~(4)~~;
  - a photocatalyst reaction unit which generates a spiral air current;
  - a forcible convection unit ~~(3)~~; and
  - a circuit control unit ~~(5)~~ which can adjustably control the operation of the forcible convection unit ~~(3)~~, wherein:
- the ~~first~~ filter unit ~~(4)~~ is disposed below the body ~~(1)~~ and has a front surface ~~in shape of~~ with an opening ~~so as to communicate~~ communicating with the outside and a rear surface in communication with an inlet port of the forcible convection unit ~~(3)~~, and
- the forcible convection unit ~~(3)~~ is disposed between the first filter unit ~~(4)~~ and the photocatalyst reaction unit ~~so as to communicate~~ the first filter unit ~~(4)~~ communicates with the photocatalyst reaction unit, ~~characterized in that:~~
- the photocatalyst reaction unit includes an air duct ~~(21)~~, a photocatalyst coating layer ~~(22)~~ disposed on an interior wall of the air duct ~~(21)~~, two lamp holders ~~(24)~~, at least one ultra violet ray tube ~~(23)~~ mounted on the two lamp holders ~~(24)~~, and a blow guide holder ~~(26)~~ on which a spiral blow guide blade ~~(25)~~ is mounted,
- ~~wherein two~~ ends of the air duct ~~(21)~~ are hermetically connected to left and right side plates of the body ~~(1)~~, respectively,
- the air duct ~~is provided~~ includes, at a left side ~~thereof with~~, an air inlet port ~~which is~~ in communication with the air outlet port of the forcible convection unit ~~(3)~~, in a tangential direction thereof,
- ~~two~~ ends of each ultra violet ray tube ~~(23)~~ are mounted on the lamp holders ~~(24)~~ and axially disposed inside the air duct ~~(21)~~,
- the blow guide holder ~~(26)~~ ~~is provided~~ located on the left side plate and located at a position of the air inlet port of the air duct ~~(21)~~,
- the blow guide holder ~~(26)~~ ~~is provided~~ includes, at a right end ~~thereof with~~, a

plurality of vent holes ~~(28) which are formed and arranged in form of a loop,~~ and  
a vent opening ~~(261) which is in communication with the vent holes is provided,~~  
at a side wall of the blow guide holder ~~(26).~~

2. (Currently Amended) The air cleaning device according to claim 1, ~~characterized in that: wherein~~ the air duct ~~(21) is composed of~~ includes two elongated housings, each housing having a semi-circle section, which can be abutted with each other, wherein each of the two semi-circle shaped housings ~~is provided~~ includes, at a lower left side thereof with, a recess so that the ~~two~~ recesses of the two housings can be abutted with each other ~~so as~~ to form an air inlet port.

3. (Currently Amended) The air cleaning device according to claim 1 ~~or 2, characterized in that: wherein~~

the interior wall of the air duct ~~(21) is formed into an accidented~~ includes a surface with undulations, and

the photocatalyst coating layer ~~(22) is coated onto~~ coats the accidented surface with undulations of the interior wall of the air duct ~~by a spraying or impregnating process.~~

4. (Currently Amended) The air cleaning device according to claim 1 ~~or 2, characterized in that: wherein~~

the ~~first~~ filter unit ~~(4)~~ includes a dust blocking web ~~(41)~~ and a movable door ~~(42) which are provided~~ on a front housing ~~(11)~~ of the body ~~(1), wherein:~~

the dust blocking web ~~(41)~~ is a filter web made of active carbon or high-efficiency HEPA filtering materials or a combination thereof; and

the movable door ~~(42)~~ is disposed on the front side of the dust blocking web ~~(41)~~ and ~~provided with~~ includes an air suction grill.

5. (Currently Amended) The air cleaning device according to claim 1 ~~or 2, characterized in that: wherein~~

the forcible convection unit ~~(3)~~ ~~is configured to be~~ includes a blower ~~consisting of~~ having a motor ~~(31)~~ ~~which is provided~~ located between a front housing and a rear housing of the body ~~(1)~~ and connected to the circuit control unit ~~(5)~~, and a plurality of blades ~~(32)~~ which are mounted on a ~~rotation~~ rotating shaft of the motor ~~(31)~~, ~~wherein:~~ and

an air inlet port of the blower is in communication with the ~~first~~ filter unit ~~(4)~~, and an air outlet port ~~thereof~~ of the filter unit is in communication with an air inlet port of the photocatalyst reaction unit.